ASG47

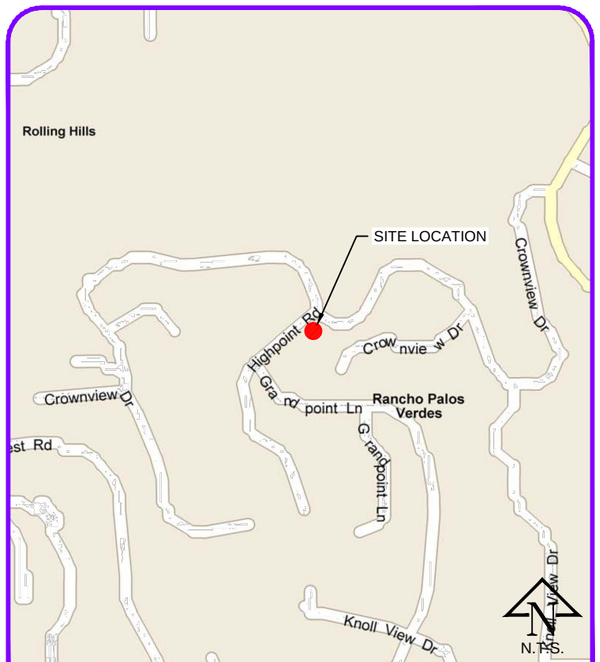
ACROSS FROM 3087 CROWNVIEW DR/ HIGHPOINT RD
RANCHO PALOS VERDES, CA

SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
D-1	DETAILS & NOTES
D-2	DETAILS & NOTES
D-3	DETAILS & NOTES
S-1	SITE PHOTOS
S-2	PHOTOSIM
P-1	POLE PROFILE & SITE PLAN

SHEET INDEX

GENERAL CONTRACTOR NOTES:

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR RESPONSIBLE FOR SAME.



VICINITY MAP

PROJECT DESCRIPTION:

- REMOVE EXISTING STEEL POLE SIGN AND REPLACE WITH NEW 21' STEEL POLE (TO BE PAINTED DARK GREEN).
- PLACE STOP SIGN AT 6' 0"; EXISTING HEIGHT 6' 0".
- PLACE STREET SIGN AT 12' 0'; EXISTING HEIGHT 12' 0".
- PLACE STREET SIGN AT 12' 6'; EXISTING HEIGHT 12' 6".
- INSTALL (1) AMPHENOL #HTXCWW4513Fxy0 ANTENNA.
- INSTALL (1) ML IONS INSIDE CISH-51 PEDESTAL.
- INSTALL CISH-51 PEDESTAL.
- EQUIPMENT AND ANTENNA TO BE PAINTED TO MATCH POLE.

100AMP PANEL
120/240V 1PHASE
1.1KW 0TON

PROJECT SUMMARY

PROJECT MANAGER:
CROWN CASTLE NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
HEIDI PAYNE
(949) 300-9493
HEIDI.PAYNE@CROWNCASTLE.COM

FIBER MANAGER:
CROWN CASTLE NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
ALFREDO ARZUBIAGA
(818) 939-5579
ALFREDO.ARZUBIAGA@CROWNCASTLE.COM

CONSTRUCTION MANAGER:
CROWN CASTLE NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
MIKE GILDERSLEEVE
(808) 286-8323
MIKE.GILDERSLEEVE@CROWNCASTLE.COM

NODE ENGINEER:
COASTAL COMMUNICATIONS
5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
TODD THREW
(760) 929-0910 EXT. 101
TODD@COASTALCOMMINC.COM

PROJECT TEAM

ASG47

PHASE II

CROWN CASTLE PROJECT NO.

242727

CLIENT:

CROWN CASTLE NG WEST LLC

300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
www.crowncastle.com

PREPARED BY:

Coastal Communications
Telecommunications Engineering

5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

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UNDERGROUND SERVICE ALERT
TICKET #_____

REVISION / ISSUE	DATE
CISH CABINET ADDED	12/30/15

SITE NAME & ADDRESS:

ASG47
ACROSS FROM
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RANCHO PALOS VERDES, CA

TITLE SHEET

DRAWN BY:	DRAFT DATE:	APPROVED BY:
S.R.	8/14/14	H.P.

SHEET NO.

T-1

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED
	17" X 30" HANDHOLE
	2' X 3' VAULT
	NEW POLE
	NEW STREETLIGHT
	PCC SIDEWALK
	TRENCH AND FIBER CONDUIT (PVT)
	DIRECTIONAL BORING
	BORE PIT (REPAIR)
	EXISTING
	EXISTING UTILITY POLE
	EXISTING STREETLIGHT
	EXISTING TRAFFIC SIGNAL
	EXISTING MANHOLE
	EXISTING VAULT / HANDHOLE
	EXISTING PEDESTAL
	EXISTING TRANSFORMER
	STATION POINTS (100' INCREMENTS)
	EXISTING CURB RAMP
	EXISTING FIRE HYDRANT
C&G	EXISTING CURB & GUTTER
A/C	EXISTING ASPHALT CURB
EOP	EXISTING EDGE OF PAVEMENT
BERM	EXISTING BERM
R/W	EXISTING RIGHT OF WAY
S/B	SUBDIVISION BOUNDARY
℄	EXISTING CENTER LINE
℄	EXISTING CENTER LINE

ABBREVIATIONS

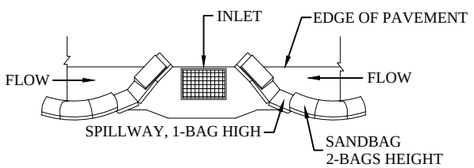
A/C	ASPHALT CURB
C&G	CURB & GUTTER
CL	CENTERLINE
EX	EXISTING
EOP	EDGE OF PAVEMENT
PL	PROPERTY LINE
R/W	RIGHT OF WAY
S/B	SUBDIVISION BOUNDARY

EROSION AND SEDIMENT CONTROL NOTES:

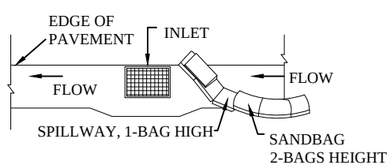
TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF RANCHO PALOS VERDES ``LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED PUBLIC IMPROVEMENTS CONSISTENT WITH THE EROSION CONTROL PLAN AND/OR WATER POLLUTION CONTROL PLAN (WPCP), IF APPLICABLE.
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
4. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
5. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
6. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
7. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
8. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
9. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
10. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

STORMDRAIN INLET PROTECTION



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

NOTES:
1. INTENDED FOR SHORT - TERM USE.
2. USE TO INHIBIT NON - STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

NOTES:

1. CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
2. CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
3. SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEPT AND CLEANED AS NEEDED.
4. CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
5. CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
6. THE CONTRACTOR SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO PAVING, STRIPING, BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.
7. SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF RANCHO PALOS VERDES STANDARD DRAWINGS G7, G9, G10, G11 & SDG100.
8. PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

1. GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, GO95 AND GO128 STANDARDS AND REGULATIONS.
3. CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
4. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. ALL EQUIPMENT TO BE BONDED.
6. METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
7. CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

1. LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO THE DEPT. OF PUBLIC WORKS FOR APPROVAL.
2. CHANGES MAY BE PERMITTED BY THE DEPT. OF PUBLIC WORKS IN CASES OF CONFLICTING FACILITIES.
3. CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
4. FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB.
5. MAXIMUM 2" DIAMETER GAS MAINS MAY BE PLACED IN JOINT UTILITIES TRENCH SUBJECT TO APPROVAL OF CITY ENGINEER (IN TRACTS).

CALIFORNIA STATE CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PREFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2010
- 2010 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 CALIFORNIA MECHANICAL CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

FCC NOTE:
THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

ASG47

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PREPARED BY:

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SHEET NO.

D-1

ANDREW ION-M17HP/19HP

MULTI-BAND, MULTI-OPERATOR REMOTE OPTICAL SYSTEM

Electrical

Power Supply
Mains Power, Vac. ..... 85 to 264
..... 115 or 230
Power consumption, watts 1150

Optical

Connectors ..... E2000/APC 8°
Optical return loss, dB ..... 45 minimum
Fiber type, mm ..... Single mode E9/125
Optical link budget, dB ..... 0 to 10
Composite input power
@ OTRx master side, dBm
1900 MHz ..... +5 composite
1700 / 2100 MHz ..... +5 composite

Interface

BTS Side
Number of connectors
1900 MHz 4
1700/2100 MHz 4

System optimized for BTS power, dBm
..... 33
..... 43

Antenna Port
Connector ..... 7/16 Female
Output power ..... See band specification
Return loss, dB 15

1700/2100 MHz (AWS)

Frequency range, MHz
Uplink ..... 1710 to 1755
Downlink ..... 2110 to 2155

Output power per carrier, dBm*

Number of Carriers	1	2	4	8
GSM	45	42	39	36
CDMA	45	42	39	36
UMTS	45	42	39	36
LTE	45	42**	39	36

Spurious emission ..... < -13 dBm / 1 MHz

Adjacent chanel power, dBc ..... -48
DL output tolerance over frequency, dB ..... ±1
DL output tolerance over temperature, dB 0.5***
Input ICP3, dBm
ICP3 optimized ..... -12
Noise figure optimized ..... -18

Noise figure, dB
ICP3 optimized 7
..... 11 max.
Noise figure optimized 4.5
..... 6 max.

1900 MHz (AWS)

Frequency range, MHz
Uplink ..... 1850 to 1915
Downlink ..... 1930 to 1995

Output power per carrier, dBm*

Number of Carriers	1	2	4	8
GSM	45	42	39	36
CDMA	45	42	39	36
UMTS	45	42	39	36
LTE	45	42**	39	36

Spurious emission ..... < -13 dBm / 1 MHz
DL output tolerance over frequency, dB ..... ±1
DL output tolerance over temperature, dB 0.5***
Input ICP3, dBm
ICP3 optimized ..... -12
Noise figure optimized ..... -18

Noise figure, dB
ICP3 optimized 7
..... 11 max.
Noise figure optimized 4.5
..... 6 max.

System Supervision and Control

Commands ..... RF on/off
External control parts
Alarms ..... Summary
..... Power Supply
..... Optical UL and DL failure
..... Temperature
Supervision ..... Output power on a per-channel and per-band basis (optional)

Mechanical****

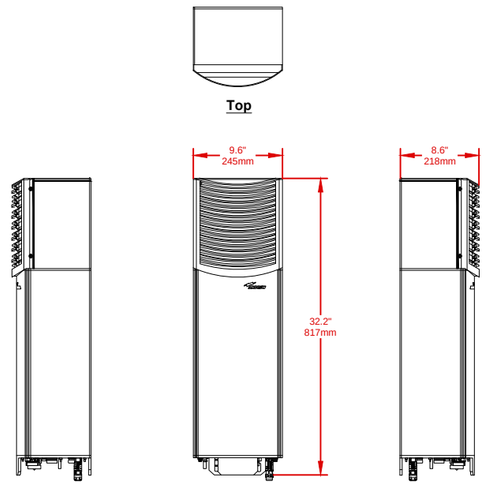
Height, width, depth mm (in) ..... 817 x 245 x 218
(32.2 x 9.61 x 8.6)
Weight, kg (lb) 40 (88.2)

Environmental

Operation temperature range ..... -33° C to +50° C
Ingress protection
RF part IP67
Fan part IP55

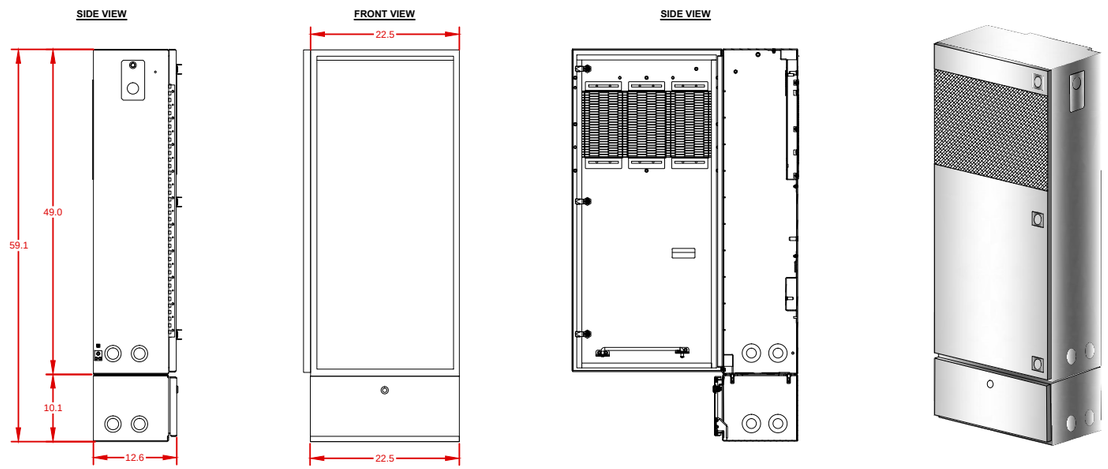
* Applicable to single modulation mode only
** 3db power reduction @ < 5MHz carrier bandwith
*** With active cooling
**** Spacing required 40 mm (1.58 in) around unit
**** With passive cooling maximum temperature +40° C

All figures are typical values.



1 SCALE N.T.S.

CISH-51 PEDESTAL



NOTES:

CUBE APPROX. WEIGHT W/PEDEDSTAL = 105 LBS

* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

2 SCALE N.T.S.

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SHEET NO.

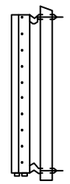
D-2

AMPHENOL
45° TRI-BAND PANEL ANTENNA
(Model #HTXCWW4513Fxy0)

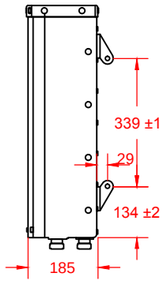
Tri Band | Panel | XXX-Pol | 45° | 13.9 / 14.4 / 14.4 | Fixed Tilt

Ordering Options							
When ordering replace the "x" in the model number with the value of electrical downtilt for the 696-960 MHz frequency and replace the "y" in the model number with the value of electrical downtilt for the 1710-2690 MHz range. Select from the options listed below under Electrical Downtilt.							
Electrical Characteristics		696-960 MHz			(2x) 1710-2690 MHz		
Frequency bands (MHz)		696-790	790-880	880-960	1710-1880	1920-2170	2200-2690
Polarization		±45°			(2x) ±45°		
Horizontal beamwidth		47°	42°	37°	49°	42°	38°
Vertical beamwidth		40.6°	35.4°	30.8°	24.8°	23.0°	21.7°
Gain		12.2 dBi	13.3 dBi	13.9 dBi	12.9 dBi	14.1 dBi	14.4 dBi
Electrical downtilt		(x) 0			(y) 0		
Impedance		50Ω			50Ω		
VSWR		≤1.5:1			≤1.5:1		
Front-to-Back Ratio		> 24 dB			> 25 dB		
Isolation Between Bands		> 30 dB			> 30 dB		
Isolation Between Ports		≥ 25 dB			≥ 25 dB		
IM3 (2x20W carrier)		< -150 dBc			< -150 dBc		
Input Power		(2x) 500W			(4x) 300 W		
Lightning Protection		Direct Ground					
Total Number of Connectors		Antenna has 6 connectors located at the bottom					
Connectors Per Band, Type, Location	696-960 MHz	2 Connectors (R1) / 7/16-DIN Female / Bottom					
	1710-2690 MHz	2 Connectors (Y1) / 7/16-DIN Female / Bottom					
	1710-2690 MHz	2 Connectors (Y2) / 7/16-DIN Female / Bottom					
Mechanical Characteristics							
Dimensions (Height x Width x Depth)		611 x 412 x 185 mm			24.1 x 16.2 x 7.3 in		
Weight without Mounting Brackets		7.1 kg			15.7 lbs		
Survival Wind Speed		241 km/hr			150 mph		
Wind Loads	Front	0.25 m^2			2.7 ft^2		
	Side	0.11 m^2			1.2 ft^2		
Wind Loads (160 km/hr or 100 mph)	Front	305 N			68 lbf		
	Side	135 N			30 lbf		
Mounting Options	Part Number	Image		Fits Pipe Diameter		Weight	
The following mounting and downtilt bracket kits are included with the antenna.							
2-Point Mounting Bracket Kit	0900181/00	(see Image 1)		48-115 mm 1.9-4.5 in		3.4 kg 7.5 lbs	
Kit to Add Mechanical Downtilt	0900188/00	(see Image 2)		----		1.5 kg 3.3 lbs	

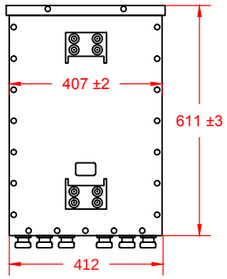
(Image 1)
0900181/00



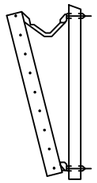
SIDE VIEW



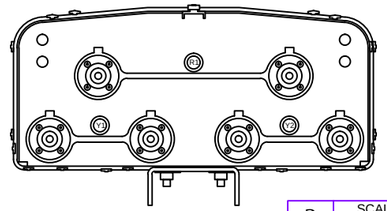
FRONT VIEW



(Image 2)
0900188/00

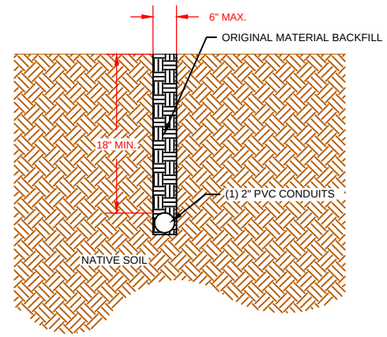


BOTTOM VIEW



3 | SCALE N.T.S.

IN DIRT - PRIVATE
TYPICAL SECTION
(N.T.S.)



INSTALLATION NOTES:

-CUT 6" MAX. WIDTH X 18" + DEPTH TRENCH
-BACKFILL WITH THE ORIGINAL MATERIAL FROM THE TRENCH
-RESTORE THE SURFACE

4 | SCALE N.T.S.

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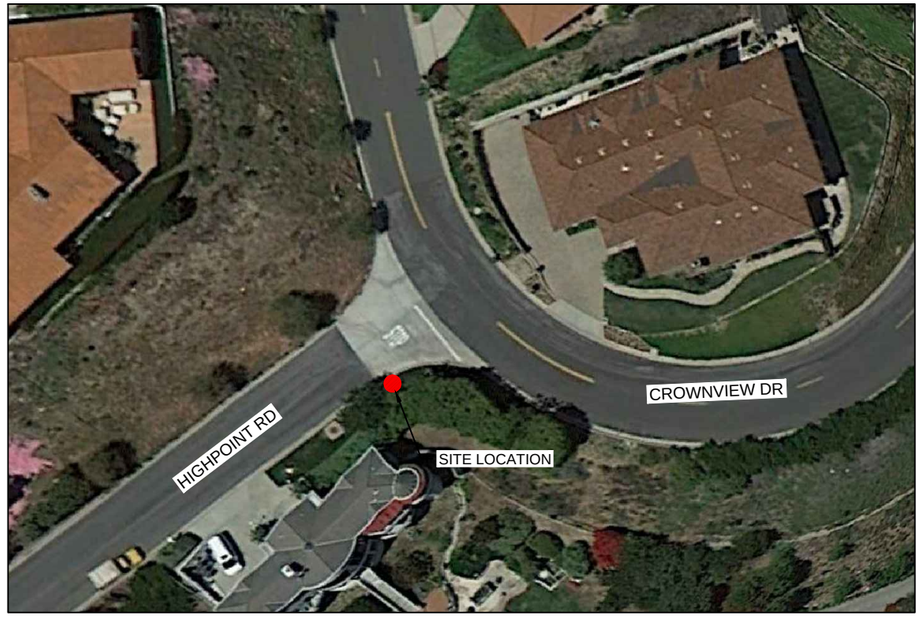
SHEET NO.
D-3



A | **KEY MAP**

B | **12 O'CLOCK VIEW**

C | **3 O'CLOCK VIEW**

D | **9 O'CLOCK VIEW**

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PROPRIETARY INFORMATION

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DIGALERT

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CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
TICKET # _____

REVISION / ISSUE	DATE
CISH CABINET ADDED	12/30/15

SITE NAME & ADDRESS:

ASG47
ACROSS FROM
3087 CROWNVIEW DR/
HIGHPOINT RD
RANCHO PALOS VERDES, CA

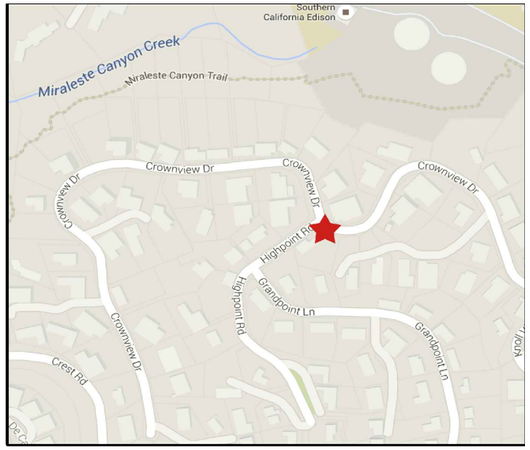
SITE PHOTOS

DRAWN BY:	DRAFT DATE:	APPROVED BY:
S.R.	8/14/14	H.P.

SHEET NO.

S-1

Existing Site



Vicinity Map

Proposed Site ASG47

ASG47

PHASE II

CROWN CASTLE PROJECT NO.

242727

CLIENT:

CROWN CASTLE NG WEST LLC

300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
www.crowncastle.com

PREPARED BY:

Coastal Communications
Telecommunications Engineering

5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

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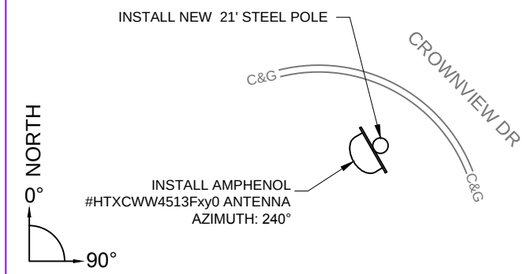
PHOTOSIM

DRAWN BY:	DRAFT DATE:	APPROVED BY:
S.R.	8/14/14	H.P.

SHEET NO.

S-2

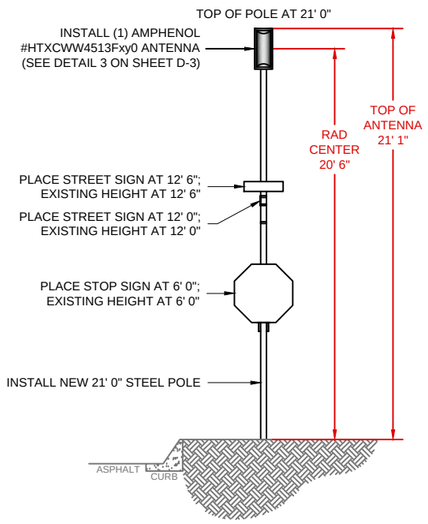


A ANTENNA DETAILS — N.T.S.

POLE #N/T:

TOP OF POLE: 21' 0"
TOP OF ANTENNA: 21' 1"
RAD CENTER: 20' 6"
AZIMUTH: 240°

EQUIPMENT AND ANTENNAS TO BE PAINTED TO MATCH POLE.

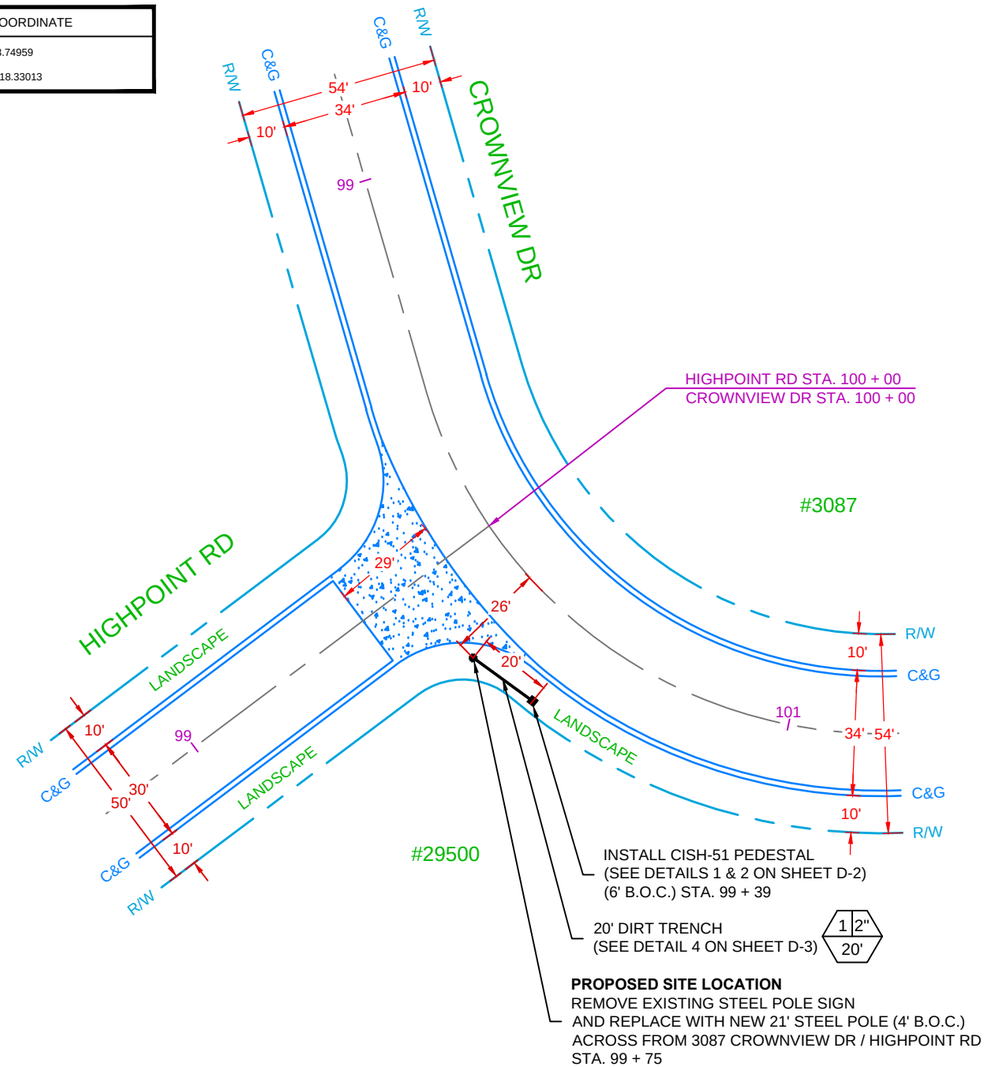


B 9 O'CLOCK VIEW — N.T.S.

NEW CONSTRUCTION

- REMOVE EXISTING STEEL POLE SIGN AND REPLACE WITH NEW 21' STEEL POLE (TO BE PAINTED DARK GREEN).
- PLACE STOP SIGN AT 6' 0"; EXISTING HEIGHT 6' 0".
- PLACE STREET SIGN AT 12' 0'; EXISTING HEIGHT 12' 0".
- PLACE STREET SIGN AT 12' 6'; EXISTING HEIGHT 12' 6".
- INSTALL (1) AMPHENOL #HTXCWW4513Fxy0 ANTENNA.
- INSTALL (1) ML IONS INSIDE CISH-51 PEDESTAL.
- INSTALL CISH-51 PEDESTAL.
- EQUIPMENT AND ANTENNA TO BE PAINTED TO MATCH POLE.
  100AMP PANEL
  120/240V 1PHASE
  1.1KW 0TON

NODE COORDINATE	
LATITUDE:	33.74959
LONGITUDE:	-118.33013



NORTH

SCALE: 1" = 40'

ASG47

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POLE PROFILE
& SITE PLAN

DRAWN BY:	DRAFT DATE:	APPROVED BY:
S.R.	8/14/14	H.P.

SHEET NO.
P-1